

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/015694 A3

(51) International Patent Classification⁷: **H01R 13/627**

(21) International Application Number:
PCT/EP2004/051354

(22) International Filing Date: 5 July 2004 (05.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1023937 17 July 2003 (17.07.2003) NL

(71) Applicant (for all designated States except US): FCI
[FR/FR]; 145/147 rue Yves Le Coz, F-78000 Versailles
(FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GABRIELSSON,
Per, Georg [SE/SE]; Snarvindevagen 271, S-165 74 Has-
selby (SE). VERREYDT, Bart, Theo, Maria [BE/BE];
Bremstraat 11, B-1981 Hofstade/Zemst (BE).

(74) Agents: METMAN, Karel, Johannes et al.; De Vries
& Metman, Patent Department, Overschiestraat 180,
NL-1062 XK Amsterdam (NL).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

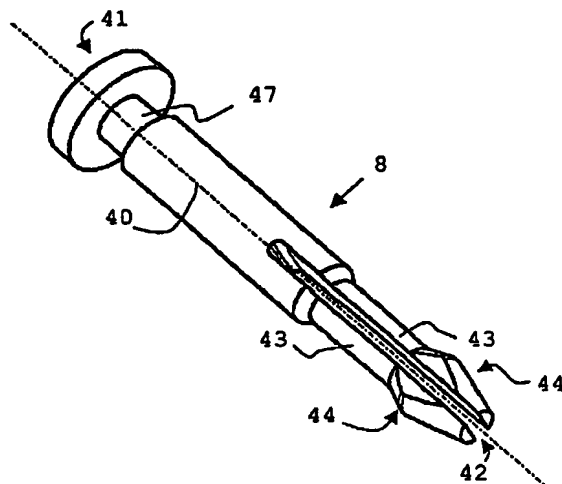
Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
28 April 2005

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: LOCKING ELEMENT



(57) Abstract: The invention relates to a locking element
(8) for locking and unlocking a cable connector and a coun-
terpart, said locking element (8) extending along a longitu-
dinal axis (40) between a rear side (41) and a mating side
(42). At the mating side (42) two or more resilient beams
(43) extend substantially parallel to the longitudinal axis
(40) and contain one or more locking structures (44) com-
prising an insertion surface and a locking surface building
an angle with the longitudinal axis (40). The insertion sur-
face and locking surface have an inclined orientation with
respect to the longitudinal axis (40) wherein the angle of
the locking surface is larger than the angle of the insertion
surface but substantially smaller than 90 degrees. The in-
vention further relates to a connector system wherein one
or more of these locking elements (8) are applied to con-
nect a cable connector and a board connector.

WO 2005/015694 A3